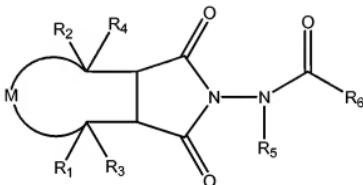


AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of the Claims:

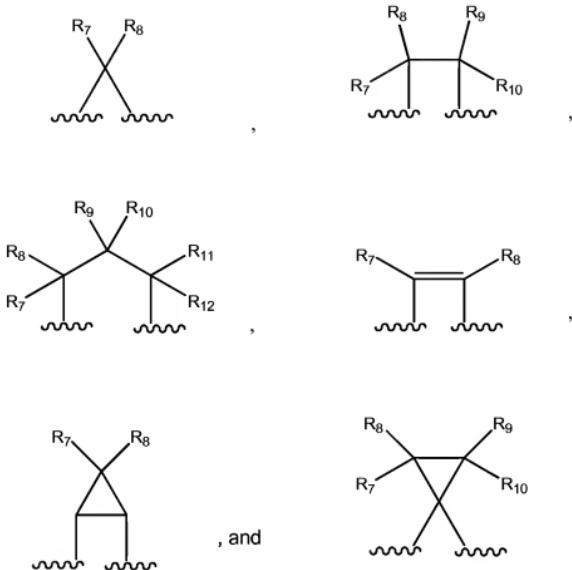
1. (Previously Presented) A method of treating or preventing an infection caused by an orthopox virus in a living host having or susceptible to said infection, said method comprising administering to said living host a therapeutically effective amount of a compound having the formula:



wherein:

R₁ and R₂ represent radicals independently selected from the group consisting of hydrogen and alkyl;

R₃ and R₄ represent radicals independently selected from the group consisting of hydrogen and alkyl; or R₃ and R₄ taken together with the carbons to which they are attached form a cyclic structure selected from the group consisting of



wherein R₇, R₈, R₉, R₁₀, R₁₁, and R₁₂ represent radicals that are independently selected

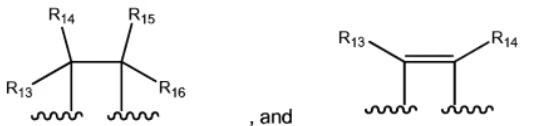
from the group consisting of hydrogen and alkyl;

R₅ represents a radical selected from the group consisting of hydrogen and alkyl;

R₆ represents a radical selected from the group consisting of straight- or branched chain alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, cycloalkenyl, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group selected from the group consisting of furyl, thienyl, pyridyl, pyrrolyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, isoxazolyl, isothiazolyl, 1,2,3-oxadiazolyl, 1,2,3-triazolyl, and tetrazolyl; a substituted or unsubstituted

arylalkyl group, and a substituted or unsubstituted heteroarylalkyl group, wherein the heteroaryl is selected from the group consisting of pyridine and thiophene;

M is selected from the group consisting of



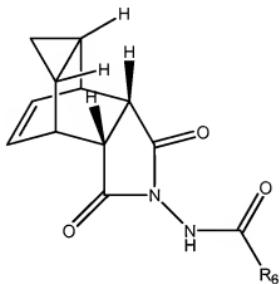
wherein R₁₃, R₁₄, R₁₅, and R₁₆ are independently selected from the group consisting of hydrogen and alkyl; said aryl group substituents and said arylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

said heteroaryl group substituents and said heteroarylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, hydroxy, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, amino, monoalkylamino, dialkylamino, aminoalkyl, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

or a pharmaceutically acceptable salt thereof.

2. (Original) A method of treating or preventing an infection caused by an orthopox virus in a living host having or susceptible to said infection, said method comprising

administering to said living host a therapeutically effective amount of a compound having the formula:



Ia

wherein:

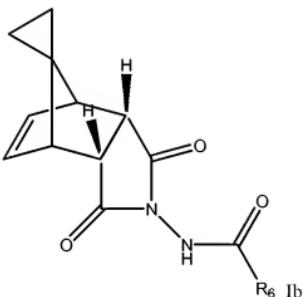
R₆ represents a radical selected from the group consisting of straight- or branched chain alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, cycloalkenyl, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group selected from the group consisting of furyl, thienyl, pyridyl, pyrrolyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, isoxazolyl, isothiazolyl, 1,2,3-oxadiazolyl, 1,2,3-triazolyl, and tetrazolyl; a substituted or unsubstituted arylalkyl group, and a substituted or unsubstituted heteroarylalkyl group, wherein the heteroaryl is selected from the group consisting pyridine and thiophene;

said aryl group substituents and said arylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

said heteroaryl group substituents and said heteroarylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, hydroxy, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, amino, monoalkylamino, dialkylamino, aminoalkyl, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

or a pharmaceutically acceptable salt thereof.

3. (Original) A method of treating or preventing an infection caused by an orthopox virus in a living host having or susceptible to said infection, said method comprising administering to said living host a therapeutically effective amount of a compound having the formula:



wherein

R₆ represents a radical selected from the group consisting of straight- or branched chain alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, cycloalkenyl, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group selected from the group consisting of furyl, thienyl, pyridyl, pyrrolyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, isoxazolyl,

isothiazolyl, 1,2,3-oxadiazolyl, 1,2,3-triazolyl, and tetrazolyl; a substituted or unsubstituted arylalkyl group, and a substituted or unsubstituted heteroarylalkyl group, wherein the heteroaryl is selected from the group consisting pyridine and thiophene;

 said aryl group substituents and said arylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

 said heteroaryl group substituents and said heteroarylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, hydroxy, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, amino, monoalkylamino, dialkylamino, aminoalkyl, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

 or a pharmaceutically acceptable salt thereof.

4. (Currently Amended) The method of claim 1, wherein said compound is selected from the group consisting of:

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-4-pyridinecarboxamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

3-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

3-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

2-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

2-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

4-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol- -2(1H)-yl)-3-pyridinecarboxamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol- -2(1H)-yl)-2-pyridinecarboxamide;

4-methoxy-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[- f]isoindol-2(1H)-yl)-benzamide;

4-nitro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

3-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(1,3-(2H,3aH)-dioxo-4,8-ethenocyclohepta[c]pyrrolyl)-benzamide;

4-bromo-N-(octahydro-1,3-dioxo-2H-isoindol-2-yl)-benzamide;

4-bromo-N-bicyclo[2.2.2]oct-5-ene-2,3-dicarboximido-benzamide;

4-bromo-N-bicyclo[2.2.2]octane-2,3-dicarboximido-benzamide;

4-cyano-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-methyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

3-bromo-N-(1',3',3'a,4',7',7a-hexahydro-1',3'-dioxospiro[cyclopropane-1,-8']-

[4,7]methano[2H]isoindol]-2'-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-

tricyclo[3.3.1.13,7]decane-1-carboxamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-

benzeneacetamide;

4-bromo-N-(1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl)-benzamide;

2,4-dichloro-N-(1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl)-benzamide;

4-trifluoromethyl-N-bicyclo[2.2.2]oct-5-ene-2,3-dicarboximido-benzamide;

4-trifluoromethyl-N-bicyclo[2.2.2]octane-2,3-dicarboximido-benzamide; and

2,4-dimethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-thiazole-5-carboxamide;

or a pharmaceutically acceptable salt thereof.

5. (Currently Amended) The method of claim 1, wherein said compound is selected from the group consisting of

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-N-methyl-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-N-ethyl-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3a,4,7,7a-tetrahydro-4,7-etheno-1H-isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-acetamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-but-3-enamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-cyclohexanecarboxamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzylacetamide;

4-pyridyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-acetamide; ~~and~~

3-thienyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-7,8-dimethyl-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-acetamide; and

4-(trifluoromethyl)-N-[(3aR,4S,4aS,5aR,6R,6aS)-3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl]-benzamide;

or a pharmaceutically acceptable salt thereof.

6. (Original) The method of claim 1, wherein said compound is selected from the group consisting of

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(octahydro-1,3-dioxo-2H-isoindol-2-yl)-benzamide;

4-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

3-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol- -2(1H)-yl)-4-pyridinecarboxamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-bicyclo[2.2.2]oct-5-ene-2,3-dicarboximido-benzamide; and

4-trifluoromethyl-N-bicyclo[2.2.2]octane-2,3-dicarboximido-benzamide.

7. (Original) The method of claim 1, wherein said living host is a mammal.

8. (Original) The method of claim 1, wherein said living host is a human.

9. (Original) The method of claim 1, wherein the orthopox virus is selected from the group consisting of aractuba virus, BeAn 58058 virus, buffalopox virus, camelpox virus, cantagalo orthopoxvirus, cowpox virus, Ectromelia virus, elephantpox virus, monkeypox virus, rabbitpox virus, raccoonpox virus, skunkpox virus, taterapox virus, vaccinia virus, smallpox virus, and volepox virus.

10. (Original) The method of claim 9, wherein the orthopox virus is selected from the group consisting of vaccinia virus, cowpox virus, smallpox virus, monkeypox virus and camelpox virus.

11. (Original) The method of claim 1, wherein said compound is administered in unit dosage form containing about 0.125 to about 250 mg of said compound per kilogram of patient body weight per day.

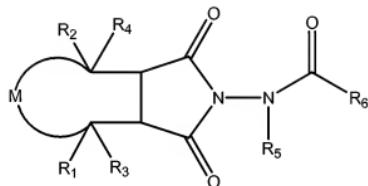
12. (Original) The method of claim 11, wherein said unit dosage includes a pharmaceutically acceptable carrier medium.

13. (Original) The method of claim 1, wherein said compound is administered in combination with at least one supplemental active agent selected from the group consisting of interferons, ribavirin, immunoglobulins, immunomodulators, anti-inflammatory agents, antibiotics, antivirals or anti-infectious agents.

14. (Original) The method of claim 13, wherein said compound and said at least one supplemental active agent are administered simultaneously.

15. (Previously Presented) The method of claim 1, wherein said route of administration is selected from the group consisting of orally, rectally, parenterally, intracistemally, intravaginally, intracisternally, locally or by inhalation.

16. (Previously Presented) A pharmaceutical composition for the treatment of orthopoxvirus infections and diseases associated with such infections in a living host, said composition comprising a therapeutically effective amount of one or more of the compounds having the formula:

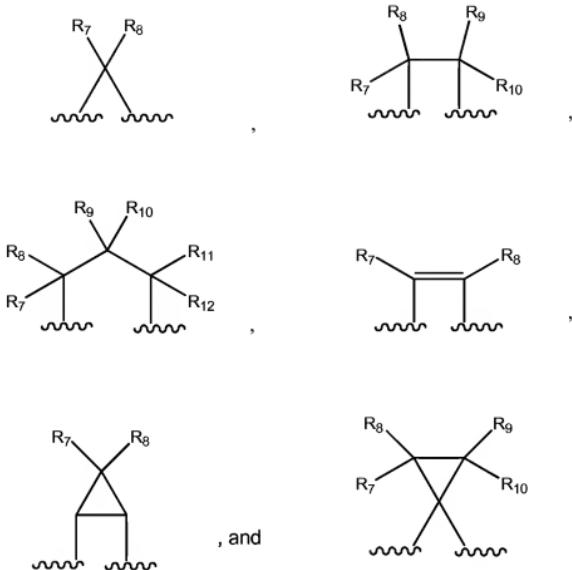


wherein:

R₁ and R₂ represent radicals independently selected from the group consisting of hydrogen and alkyl;

R₃ and R₄ represent radicals independently selected from the group consisting of hydrogen and alkyl;

or R₃ and R₄ taken together with the carbons to which they are attached form a cyclic structure selected from the group consisting of



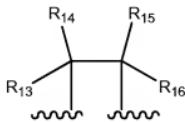
wherein R₇, R₈, R₉, R₁₀, R₁₁, and R₁₂ represent radicals that are independently selected from the group consisting of hydrogen and alkyl;

R₅ represents a radical selected from the group consisting of hydrogen and alkyl;

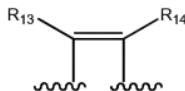
R₆ represents a radical selected from the group consisting of straight- or branched chain alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, cycloalkenyl, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group selected from the group consisting of furyl, thienyl, pyridyl, pyrrolyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, isoxazolyl, isothiazolyl, 1,2,3-oxadiazolyl, 1,2,3-triazolyl, and tetrazolyl; a substituted or unsubstituted

arylalkyl group, and a substituted or unsubstituted heteroarylalkyl group, wherein the heteroaryl is selected from the group consisting pyridine and thiophene;

M is selected from the group consisting of



, and



,

wherein R₁₃, R₁₄, R₁₅, and R₁₆ are independently selected from the group consisting of hydrogen and alkyl;

said aryl group substituents and said arylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

said heteroaryl group substituents and said heteroarylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, hydroxy, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, amino, monoalkylamino, dialkylamino, aminoalkyl, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier medium.

17. (Currently Amended) The pharmaceutical composition of claim 16, wherein the compound is selected from the group consisting of:

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-4-pyridinecarboxamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

3-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

3-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

2-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

2-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

4-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-3-pyridinecarboxamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-2-pyridinecarboxamide;

4-methoxy-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[-f]isoindol-2(1H)-yl)-benzamide;

4-nitro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

2-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f-]isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(1,3-(2H,3aH)-dioxo-4,8-ethenocyclohepta[c]pyrrolyl)-benzamide;

4-bromo-N-(octahydro-1,3-dioxo-2H-isoindol-2-yl)-benzamide;

4-bromo-N-bicyclo[2.2.2]oct-5-ene-2,3-dicarboximido-benzamide;

4-bromo-N-bicyclo[2.2.2]octane-2,3-dicarboximido-benzamide;

4-cyano-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

4-methyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;

3-bromo-N-(1',3',3'a,4',7',7'a-hexahydro-1',3'-dioxospirocyclopropane-1,-8'-[4,7]methano[2H]isoindol]-2'-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-tricyclo[3.3.1.13,7]decane-1-carboxamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzeneacetamide;

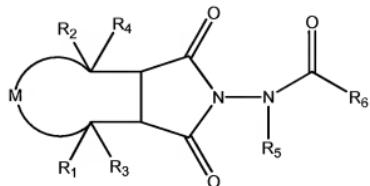
4-bromo-N-(1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl)-benzamide;

2,4-dichloro-N-(1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl)-benzamide; and

2,4-dimethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-thiazole-5-carboxamide;

or a pharmaceutically acceptable salt thereof.

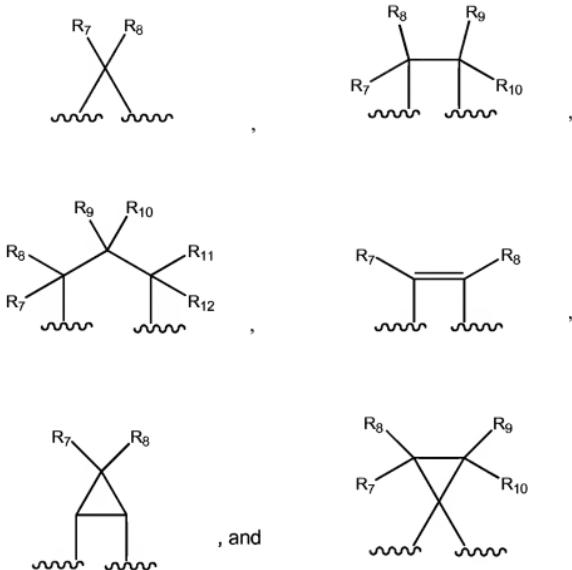
18. (Previously Presented) A compound having the formula:



wherein: R₁ and R₂ represent radicals independently selected from the group consisting of hydrogen and alkyl;

R₃ and R₄ represent radicals independently selected from the group consisting of hydrogen and alkyl;

or R₃ and R₄ taken together with the carbons to which they are attached form a cyclic structure selected from the group consisting of



wherein R₇, R₈, R₉, R₁₀, R₁₁, and R₁₂ represent radicals that are independently selected

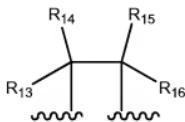
from the group consisting of hydrogen and alkyl;

R₅ represents a radical selected from the group consisting of hydrogen and alkyl;

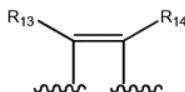
R₆ represents a radical selected from the group consisting of straight- or branched chain alkyl, cycloalkyl, cycloalkylalkyl, alkenyl, alkynyl, cycloalkenyl, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group selected from the group consisting of furyl, thienyl, pyridyl, pyrrolyl, oxazolyl, thiazolyl, imidazolyl, pyrazolyl, isoxazolyl, isothiazolyl, 1,2,3-oxadiazolyl, 1,2,3-triazolyl, and tetrazolyl; a substituted or unsubstituted

arylalkyl group, and a substituted or unsubstituted heteroarylalkyl group, wherein the heteroaryl is selected from the group consisting pyridine and thiophene;

M is selected from the group consisting of



, and



,

wherein R₁₃, R₁₄, R₁₅, and R₁₆ are independently selected from the group consisting of hydrogen and alkyl;

said aryl group substituents and said arylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

said heteroaryl group substituents and said heteroarylalkyl group substituents being one or more radical(s) independently selected from the group consisting of a straight- or branched chain alkyl, hydroxy, alkoxy, alkoxyalkyl, alkoxyalkoxy, halogen, polyfluoroalkyl, polyfluoroalkoxy, carboxy, cyano, amino, monoalkylamino, dialkylamino, aminoalkyl, nitro, amido, amidoalkyl, amidino, carboxamide, alkylthio, alkylsulfinyl, alkylsulfonyl, sulfonamide, and mercapto;

or a pharmaceutically acceptable salt thereof,

with the proviso that said formula does include the compounds selected from the group consisting of

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-4-pyridinecarboxamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

3-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

3-chloro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol- -2(1H)-yl)-4-pyridinecarboxamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-methoxy-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[- f]isoindol-2(1H)-yl)-benzamide;

4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

3-bromo-N-(1',3',3'a,4',7',7'a-hexahydro-1',3'-dioxospiro[cyclopropane-1, 8'-[4,7]methano[2H]isoindol]-2'-yl)-benzamide;

N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol- 2(1H)-yl)-tricyclo[3.3.1.1.13,7]decane-1-carboxamide; and

4-bromo-N-(1,3,3a,4,7,7a-hexahydro-1,3-dioxo-4,7-methano-2H-isoindol-2-yl)-benzamide.

19. (Currently Amended) A compound selected from the group consisting of:
4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;
2-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;
N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-3-pyridinecarboxamide;
N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol- 2(1H)-yl)-2-pyridinecarboxamide;
4-nitro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;
4-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;
3-fluoro-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]-isoindol-2(1H)-yl)-benzamide;
4-bromo-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]-isoindol-2(1H)-yl)-benzamide;
4-bromo-N-(1,3-(2H,3aH)-dioxo-4,8-ethenocyclohepta[c]pyrrolyl)-benzamide;
4-bromo-N-(octahydro-1,3-dioxo-2H-isoindol-2-yl)-benzamide;

4-bromo-N-bicyclo[2.2.2]oct-5-ene-2,3-dicarboximido-benzamide;

4-bromo-N-bicyclo[2.2.2]octane-2,3-dicarboximido-benzamide;

4-cyano-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]- isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethanocycloprop[f]isoindol-2(1H)-yl)-benzamide;

4-trifluoromethyl-N-bicyclo[2.2.2]oct-5-ene-2,3-dicarboximido-benzamide;

4-trifluoromethyl-N-bicyclo[2.2.2]octane-2,3-dicarboximido-benzamide; and

2,4-dimethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-thiazole-5-carboxamide.

20. (New) The method of claim 1, wherein said orthopox virus is an attenuated strain of vaccinia virus.

21. (New) The method of claim 20, wherein said attenuated strain provides protective immunity against variola virus.

22. (New) The method of claim 1, wherein said compound is 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide.

23. (New) The pharmaceutical composition of claim 16, wherein the compound is 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide.

24. (New) The pharmaceutical composition of claim 16, wherein the one or more of the compounds are present in an amount of between about at least 0.5% to not more than about 90% by weight, based on the total weight of the pharmaceutical composition.

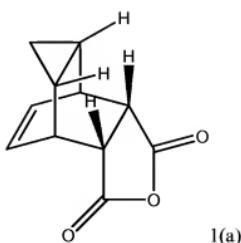
25. (New) The pharmaceutical composition of claim 16, wherein the one or more of the compounds are present in an amount of between about 5% to about 50% by weight of the pharmaceutical composition.

26. (New) The pharmaceutical composition of claim 16, wherein the one or more of the compounds are administered in dosage units containing from about 10 mg to about 10,000 mg of antiviral agent by weight of the composition.

27. (New) The pharmaceutical composition of claim 16, wherein the one or more of the compounds are administered in dosage units containing from about 100 mg to about 2,000 mg of antiviral agent by weight of the composition.

28. (New) The compound of claim 19 consisting of 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide.

29. (New) A method of making a compound having the formula



said method comprising:

- a) reacting cycloheptatriene and maleic anhydride in a solvent to form a reaction product; and
- b) collecting compound 1(a).

30. (New) The method of claim 29, wherein the ratio of cycloheptatriene to maleic anhydride is 0.82 to 1.

31. (New) The method of claim 29, wherein the solvent comprises xylenes.

32. (New) The method of claim 29, wherein the reaction occurs under argon.

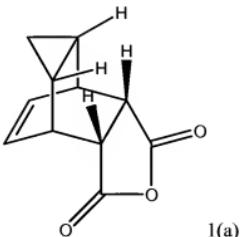
33. (New) The method of claim 29, wherein the reaction occurs at above room temperature.

34. (New) The method of claim 33, wherein the reaction is cooled to room temperature prior to collecting compound 1(a).

35. (New) The method of claim 29, wherein compound 1(a) is collected by filtration.

36. (New) A method of making 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide, said method comprising:

- a) reacting 4-trifluoromethylbenzhydrazide with a compound of formula



in a solvent to form a reaction product; and

b) collecting 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide.

37. (New) The method of claim 36, wherein the ratio of compound 1(a) to 4-trifluoromethylbenzhydrazide is 0.89 to 1.

38. (New) The method of claim 36 wherein the solvent is ethanol.

39. (New) The method of claim 36 wherein the reaction occurs at above room temperature.

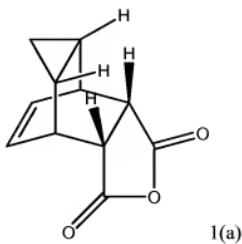
40. (New) The method of claim 36 wherein the reaction occurs under argon.

41. (New) The method of claim 36 wherein the solvent is removed by evaporation.

42. (New) The method of claim 36 wherein 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide is further purified by chromatography.

43. (New) A method of making 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide, said method comprising:

a) reacting cycloheptatriene and maleic anhydride in a first solvent to form compound 1(a);



- b) collecting compound 1(a);
- c) reacting 4-trifluoromethylbenzhydrazide with said compound 1(a) in a second solvent to form 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide; and
- d) collecting 4-trifluoromethyl-N-(3,3a,4,4a,5,5a,6,6a-octahydro-1,3-dioxo-4,6-ethenocycloprop[f]isoindol-2(1H)-yl)-benzamide.

44. (New) The method of claim 43, wherein said first solvent comprises xylenes.

45. (New) The method of claim 43, wherein said second solvent is ethanol.